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Atty. Docket No.: P64755US0
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Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application of
BOO Y1 PARK, for CAP WITH CURVED VISOR. The application comprises
a 13-page specification including 28 claims (3 independent) and
Abstract, 5 sheets of drawings, and a Declaration and Power of
Attorney.

Accompanying the application for filing is:

Small Entity Declaration under 37 C.F.R. Section 1.19 and
1.27;

Assignment document, cover sheet and **\$40.00** fee for
recordation of Assignment;

Information Disclosure Statement and PTO Form 1449 and

The filing fee has been calculated as shown:

Basic Fee for Small Entity:	\$ 345.00
Total Claims <u>28</u> - in excess of 20 = <u>8</u> (x \$9.00=)	72.00
Total Ind. Claims <u>3</u> - in excess of 3 = <u>0</u> (x \$39.00=)	.00
	+
TOTAL FILING FEE	\$417.00

Please charge our Deposit Account No. 06-1358 in the amount of
\$457.00, is enclosed to cover the Filing Fee. The Commissioner is
hereby authorized to charge payment of any fees set forth in §§1.16
or 1.17 during the pendency of this application, or credit any
overpayment, to Deposit Account No. 06-1358. A duplicate copy of
this sheet is enclosed.

Respectfully submitted,

JACOBSON, PRICE, HOLMAN & STERN, PLLC

By

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YSH:ejb

CAP WITH CURVED VISOR

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates generally to a cap having a curved visor, and more particularly, to a cap having a visor embedding a rigid material, on which at least one incision line, a groove or an indent is formed, such that the visor may maintain its curved shape and have diminished pressure to the head when worn.

2. Description of the Prior Art

Hats have been used for a variety of purpose and are in many shapes and sizes. One of the most popular hats is a baseball-style cap. The baseball-style cap typically includes a crown formed of a plurality of panels and a visor, which is extended from the front side of the crown. The visor is typically made of a rigid material having flat or curved configuration. In order to more effectively block the sun light, the visor is shaped into a curved configuration by applying predetermined degree of heat to a rigid flat sheet material, which is embedded in the visor. However, the visor tends to revert to its original flat shape and loses its curved shape over time. Also, when attempting to store or carry a cap in a pocket, it is difficult to keep the visor placed in the pocket. Sometimes, it may damage or transform the shape of the visor.

In order to solve the problem set forth above, a method of stitching the center of the visor is proposed. That is, the center of the visor is stitched to allow the visor to be folded along the center of the stitched line to reduce the overall size of the cap.

Another method is described in the U. S. Pat. No. 5,450,629 issued to Gilstrap in 1995. This patent introduces a hat where the visor is constructed to be folded like an accordion such that once the visor is folded, the hat is readily inserted into a pocket inside a shell of the hat, making the hat conveniently storable and portable.

However, the above mentioned methods are only partially effective in reducing the overall size of the hat by simple folding the visor. Whereas, the present invention provides a cap that is reducible in size while improving the aesthetic value of the hat and more effectively blocking the sun light.

SUMMARY OF THE INVENTION

Therefore, it is a primary object of the present invention to provide an improved baseball-style cap including a curved visor that is reducible in size and more effective in blocking the sun light.

It is another object of the present invention to provide a baseball-style cap which is conveniently storable and portable.

It is another object of the present invention to provide a cap with a curved visor, wherein the visor retains its curved shape over time.

It is another object of the present invention to provide a cap with a curved visor which is foldable, yet folding of the cap does not damage or transform the shape of the visor.

It is another object of the present invention to provide a cap with a curved visor, which has a different fabric with different color scheme to accentuate a strip portion at the periphery of the visor to increase the overall aesthetic value of the cap.

It is another object of the present invention to provide a cap with a curved visor, which has increased flexibility for diminished pressure to the head when worn.

It is another object of the present invention to provide a cap with a curved visor,

which has creases on the visor so that the creases fade more through repeated washing than the surrounding flat portion on the outer fabric panel and it is more fashionable.

In order to achieve the foregoing objects, the present invention provides a cap with a curved visor, which includes a crown formed of a plurality of panels and a visor consisted of a rigid material and inner and outer fabric panels, which covers the rigid material. The visor is secured to a front side of the crown. Wherein at least one incision line is made on the rigid material thereby creating a main portion and a strip portion, the main portion is inserted below the strip portion to retain the visor curved.

In order to achieve the foregoing objects, the present invention provides a cap with a curved visor, which includes a crown formed of a plurality of panels and a visor consisted of a rigid material having at least one groove and inner and outer fabric panels, which cover the rigid material. The visor is secured to a front side of the crown. Wherein the rigid material having at least one groove is curved depending on a desired angle and embedded within the inner and outer fabric panels to retain the visor curved.

In order to achieve the foregoing objects, the present invention provides a cap with a curved visor, which includes a crown formed of a plurality of panels and a visor consisted of a rigid material having at least one groove and inner and outer fabric panels, which cover the rigid material. The visor is secured to a front side of the crown. Wherein the rigid material is partially cut to create at least one indent across the rigid material to create a curve on said visor.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of a cap with a curved visor according to a first preferred embodiment of the present invention.

FIG. 1-1 is a fragmentary sectional view of the visor taken along the line A-A'

of FIG. 1.

FIG. 2 is a top plan view of a rigid material according to the first preferred embodiment of the present invention.

FIG. 2-1 is a perspective view of the rigid material according to the first preferred embodiment of the present invention.

FIG. 2-2 is a perspective view of the visor embedding the rigid material according to the first preferred embodiment of the present invention.

FIG. 3 is a perspective view of a cap with grooves in the rigid material according to a second preferred embodiment of the present invention.

FIG. 4 is a top plan view of a cap of the present invention with grooves in the rigid material according to the second preferred embodiment of the present invention.

FIG. 5 is a top plan view of the rigid material with cut grooves according to the second preferred embodiment of the present invention .

FIG. 6 is a perspective view of a cap with creases formed on the visor according to a third preferred embodiment of the present invention.

FIG. 7 is a front elevational view of a cap of the present invention with creases formed on the visor.

FIG. 7-1 is an enlarged fragmentary sectional view of part B of FIG. 7.

FIG. 8 is a perspective view of a cap of the present invention with the visor folded along the creases according to the third preferred embodiment of the present invention.

FIG. 9 is a front elevational view of a cap of the present invention with the visor folded along the creases.

FIG. 9-1 is an enlarged fragmentary sectional view of line C-C' of FIG. 9.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

In accordance with the first preferred embodiment of the present invention, and with reference to FIG. 1 and FIG. 1-1, a cap is consisted of a crown 1 and a visor 2. The crown 1 is formed of a plurality of fabric panels. Each fabric panel has an eyelet 4. The visor 2 is secured to the front side of the crown 1. The crown 1 is typically made out of woven fabric or stretchable fabric material.

According to this embodiment, an incision in the rigid material in the visor 2 is made in equal distance from the edge 11 of the visor 2 along periphery of the rigid material 10 up to a certain portion of the rigid material 10 thereby creating a strip portion 17 along the edge 10 of the rigid material 10 and a main portion 18. The incision line is shown with the reference number 21 in FIG. 2.

Then, the main portion 18 is inserted below the strip portion 17. A stitch line 19 is created on the overlapping section of the two portions so that the main portion 18 of the rigid material inserted under the strip portion 17 retains its curve allowing the visor 2 to keep its curved shape. A different fabric with different color scheme may also be used to accentuate the strip portion 17 to increases the overall aesthetic value of the cap.

FIG. 2-1 is a perspective view of the rigid material 10. As shown in the drawing, the main portion 18 of the rigid material is inserted below the strip portion 17.

FIG. 2-2 is a perspective view of the visor 2 which incorporates the rigid visor material 10 according to the first embodiment, which is retaining the curved shape.

The second preferred embodiment of the present invention is illustrated with reference to FIGS. 3-5. In this embodiment, referring FIGS. 3-4, the visor 2 is consisted of an outer fabric panel 8, an inner fabric panel 9 and a rigid material 10 embedded within the fabric panels 8, 9. Grooves 13, 15 are respectively made at the ends of the rigid material 10 and groove 14 is made at the center of the rigid material 10.

The curve shaped visor 2 having the rigid material 10, on which grooves 13, 14, 15 are made, is then secured to the front side of the crown 1. The grooves 13, 14, 15 prevent the visor 2 from reverting to the original flat shape by reducing the tension, such that the curved shape 16 is maintained longer compared to a conventional visor due to the evenly distributed elasticity. The end portions of the visor 2 have increased flexibility for diminished pressure to the head when worn.

FIG. 5 is a top plan view of the rigid material 10 with grooves 13, 14, 15. As shown in the drawing, the size of the grooves 13, 14, 15 are predetermined to achieve the result. The place where the grooves are made and the number of grooves on the rigid material 10 may vary depending on the desired angle of the curve on the visor 2. In this invention, for illustrative purpose, two side grooves and a center groove are described.

The third preferred embodiment of the present invention is illustrated with reference to FIG. 6 to FIG 9-1. Referring to FIG. 6 and FIG. 7, each fabric panel of crown 1 is attached at the seam 6 and held together by a top button 3 and double stitch lines are sewn by the seam 6. A visor 2 is secured to a front side of the crown 1. The rigid material 10 is partially cut to create indents 7 across the rigid material 10, which in effect creates and maintains a curve on the visor 2. After the outer and inner fabric panels are covered and stitched onto the rigid material 10, creases 5 are formed on the outer fabric panel 8 in equal number to the indents 7 made on the rigid material 10.

For illustration purpose, eight creases are formed in Figs. 6-7 to show an example of the present invention. The depth of the incision, the number of the indents 7 and the distance between the indents 7 may vary depending on the desired angle of the curve on the visor 2. A cap including the foldable visor of this embodiment provides an increased protection from the sun compared to the conventional visors and is more fashionable. When storing or carrying the cap, a damage to the visor can be avoided by folding the visor 2

along the creases 5, and the overall size of the cap can be reduced by folding the flexible crown 1 appropriately.

According to this embodiment of the present invention, the creases 5 on the visor 2 will fade more through repeated washing than the surrounding flat portion of the outer fabric panel 8 and it will be more fashionable.

FIG. 7-1 illustrates an enlarged fragmentary sectional view of part B of FIG. 7. As shown in the drawing, the indents 7 are provided in the rigid material 10. The rigid material 10 is covered by the outer fabric panel 8 and the inner fabric panel 9, which are jointly stitched together at the periphery.

FIG. 8 and FIG. 9 illustrate a cap folded along the creases 5 and reduced in size, while the crown 1 is also folded. Such folding of the cap makes it easier to store and carry.

FIG. 9-1 is a fragmentary sectional view of line C-C' of FIG. 9 to illustrate the reduction of the size of the cap. The rigid material 10 is easily folded along the creases 5 without damage to the shape of the cap.

It will be apparent to those skilled in the art that various modifications and variations can be made in the cap of the present invention without departing from the spirit or scope of the invention. Thus, it is intended that the present invention cover the modifications and variations of this invention provided they come within the scope of the appended claims and their equivalents.

What is claimed is:

1. A cap with a curved visor, comprising:
a crown formed of a plurality of panels; and
a visor consisted of a rigid material and inner and outer fabric panels, which covers the rigid material, said visor being secured to a front side of said crown;
wherein at least one incision line is made on the rigid material thereby creating a main portion and a strip portion, the main portion is inserted below the strip portion to retain said visor curved.
2. The cap with a curved visor of claim 1, wherein the panels of crown are made out of a common woven fabric material.
3. The cap with a curved visor of claim 1, wherein the panels are made out of a stretchable fabric material.
4. The cap with a curved visor of claim 1, wherein the rigid material is a flexible rigid material.
5. The cap with a curved visor of claim 1, wherein the rigid material is a non-flexible rigid material.
6. The cap with a curved visor of claim 1, wherein the at least one incision line is made on the rigid material in equal distance from an outer edge of the rigid material along a

periphery of the rigid material.

7. The cap with a curved visor of claim 6, wherein more than two incision lines are made, each line is made in equal distance from an outer edge of the rigid material along a periphery of the rigid material.

8. The cap with a curved visor of claim 1, wherein the rigid material is covered by the outer panel and the inner panel which are jointly stitched together at a periphery.

9. The cap with a curved visor of claim 1, wherein a periphery of the visor is covered with different color of fabric and stitched together with the outer and inner panels.

10. The cap with a curved visor of claim 1, a stitch line is created on an overlapping portion of the main portion and the strip portion in order to secure curve of said visor.

11. A cap with a curved visor, comprising:

a crown formed of a plurality of panels; and

a visor consisted of a rigid material having at least one groove and inner and outer fabric panels, which cover the rigid material, said visor being secured to a front side of said crown;

wherein the rigid material having at least one groove is curved depending on a desired angle and embedded within the inner and outer fabric panels to retain said visor curved.

12. The cap with a curved visor of claim 11, wherein said panels of said crown are made out of by a common fabric material.

13. The cap with a curved visor of claim 11, wherein said panels of said crown are made out of a stretchable fabric material.

14. The cap with a curved visor of claim 11, wherein the size of the at least one groove made on said rigid material vary depending on a desired angle of curve on said visor.

15. The cap with a curved visor of claim 11, wherein the number of the at least one groove made on said rigid material vary depending on a desired angle of curve on said visor.

16. The cap with a curved visor of claim 11, wherein the place where the at least one groove is made on said rigid material vary depending on a desired angle of curve on said visor.

17. The cap with a curved visor of claim 11, wherein the inner and outer fabric panels are made out of a common fabric material or a stretchable fabric material.

18. The cap with a curved visor of claim 11, wherein the inner and outer fabric panels are made out of a stretchable fabric material.

19. A cap with a curved visor, comprising:
a crown formed of a plurality of panels; and
a visor consisted of a rigid material and inner and outer fabric panels, which covers the rigid material, said visor being secured to a front side of said crown;
wherein the rigid material is partially cut to create at least one indent across the rigid

material to create a curve on said visor.

20. The cap with a curved visor of claim 19, wherein the panels of crown are made out of a common woven fabric material.

21. The cap with a curved visor of claim 19, wherein the panels are made out of a stretchable fabric material.

22. The cap with a curved visor of claim 19, wherein the rigid material is a flexible rigid material.

23. The cap with a curved visor of claim 19, wherein the rigid material is a non-flexible rigid material.

24. The cap with a curved visor of claim 19, wherein the depth of the at least one indent made on said rigid material vary depending on a desired angle of curve on said visor.

25. The cap with a curved visor of claim 19, wherein the number of the at least one indent made on said rigid material vary depending on a desired angle of curve on said visor.

26. The cap with a curved visor of claim 19, wherein the distance between nearby indents made on said rigid material vary depending on a desired angle of curve on said visor.

27. The cap with a curved visor of claim 19, wherein creases are formed on the outer fabric panel in equal number to the indents made on the rigid material 10.

28. The cap with a curved visor of claim 27, wherein the creases fade more through repeated washing than the surrounding flat portion of the outer fabric panel.

ABSTRACT

A cap with a curved visor includes a crown formed of a plurality of panels and a visor consisted of a rigid material and inner and outer fabric panels, which covers the rigid material. The visor is secured to a front side of the crown. At least one incision line is made on the rigid material thereby creating a main portion and a strip portion, the main portion is inserted below the strip portion to retain the visor curved. The panels of crown are made out of a common woven fabric material or a stretchable fabric material. The rigid material is a flexible rigid material or a non-flexible rigid material. At least one incision line is made on the rigid material in equal distance from an outer edge of the rigid material along a periphery of the rigid material. The rigid material is covered by the outer panel and the inner panel which are jointly stitched together at a periphery. A periphery of the visor may be covered with different color of fabric and stitched together with the outer and inner panels.

FIG.1

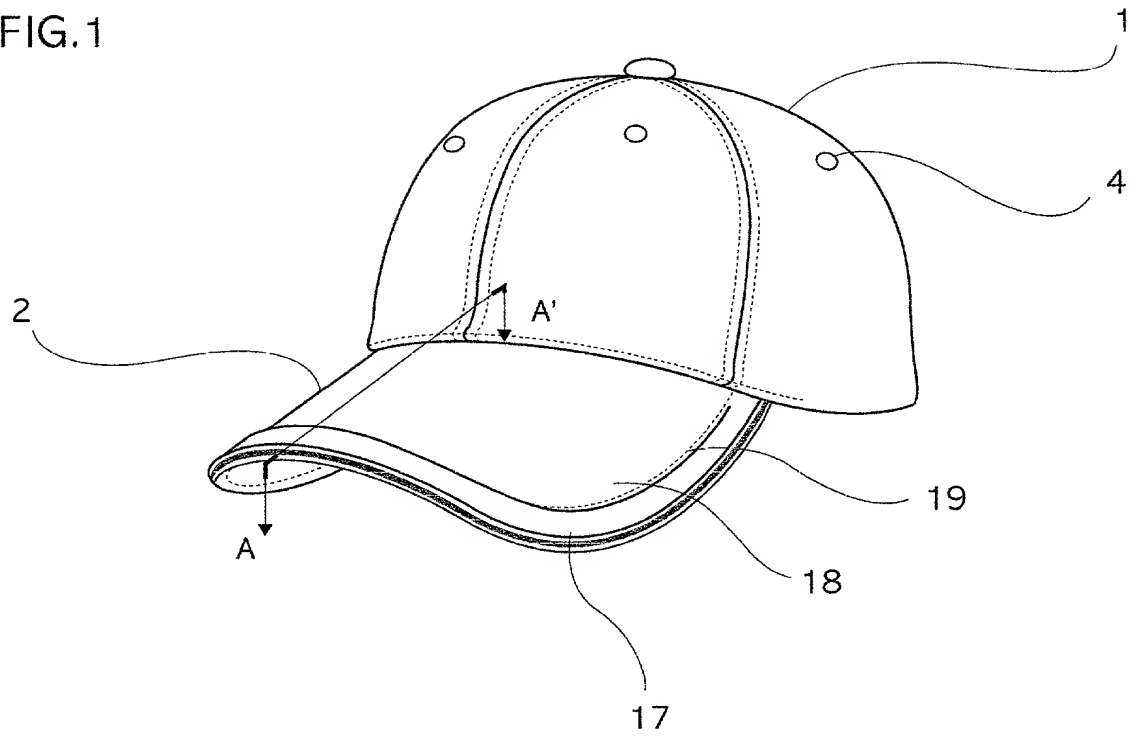


FIG.1-1

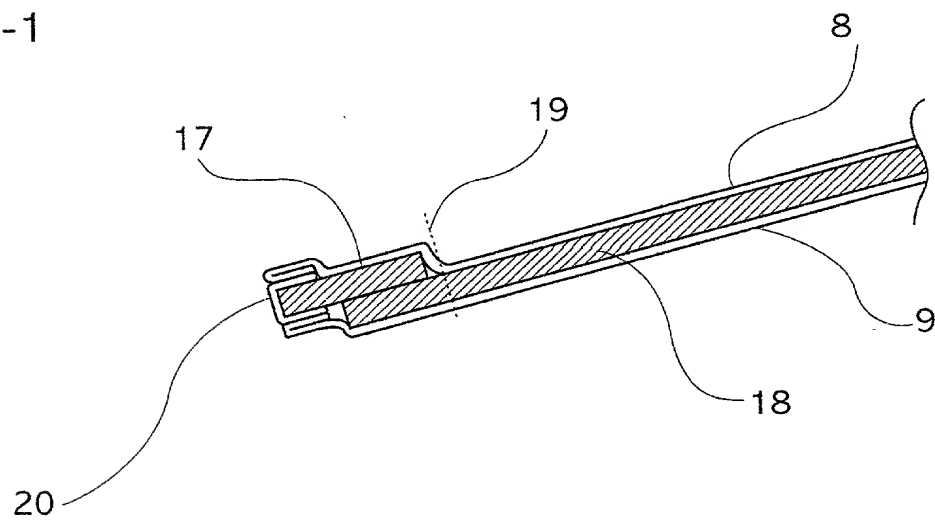


FIG.2

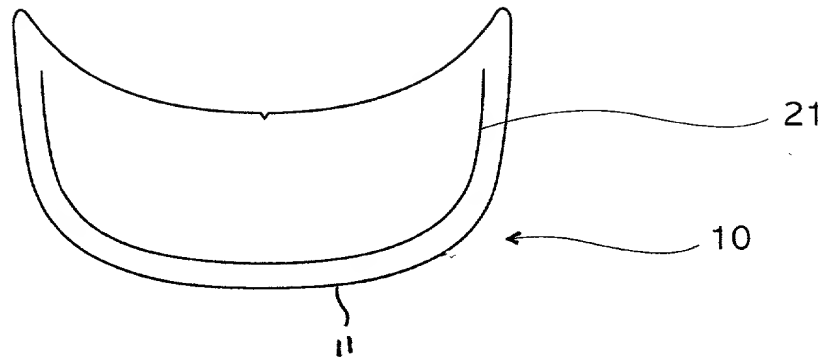


FIG.2-1

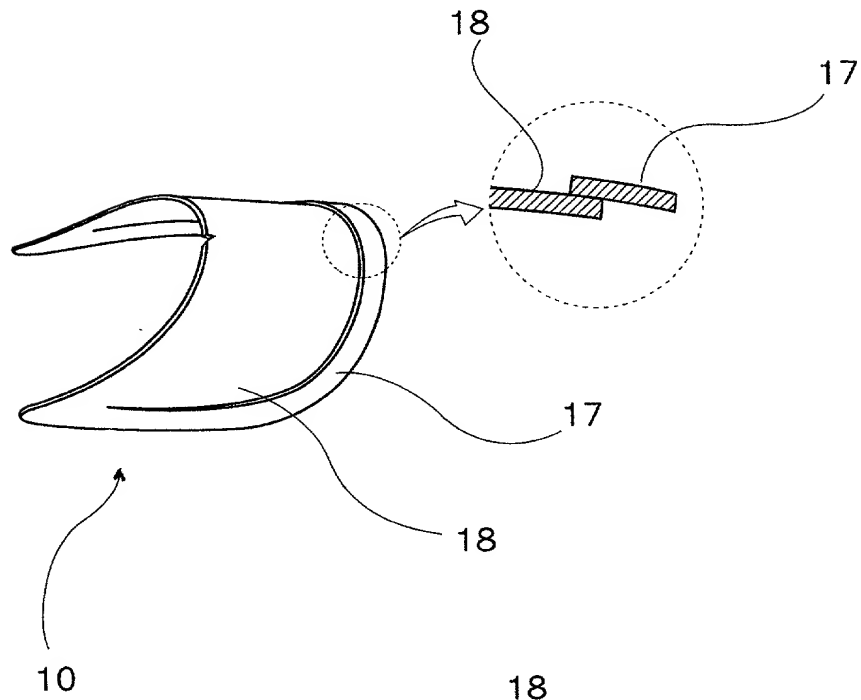


FIG.2-2

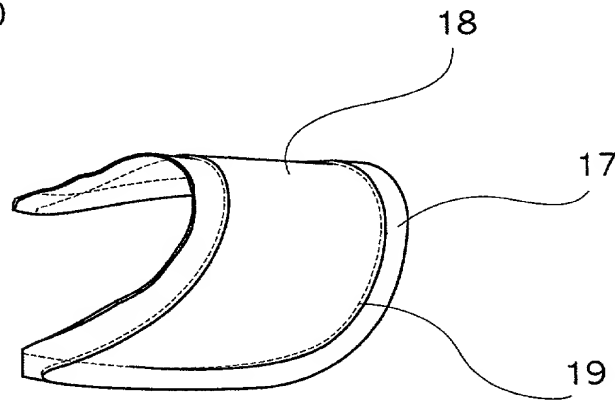


FIG.3

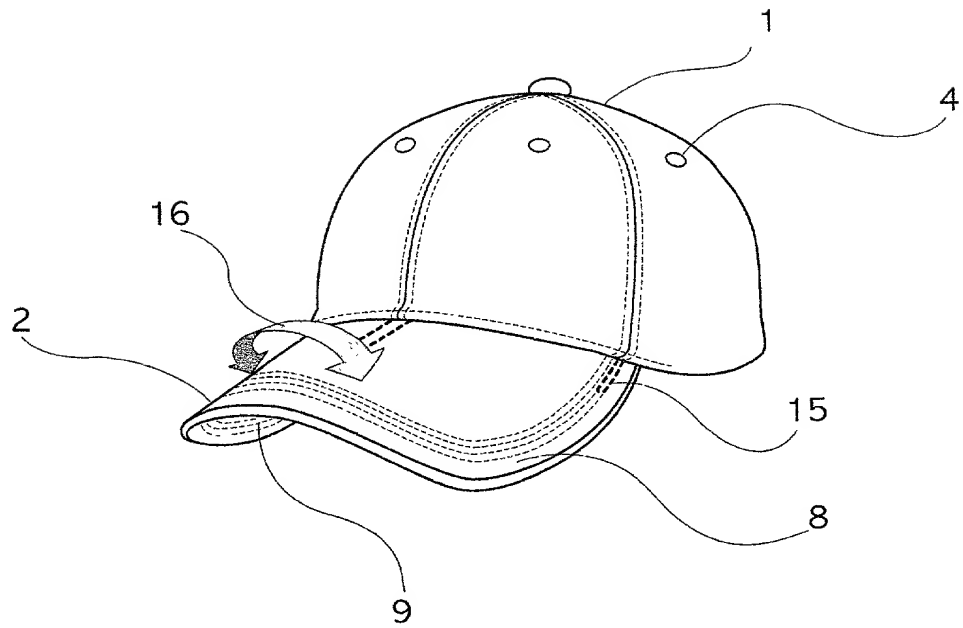


FIG.4

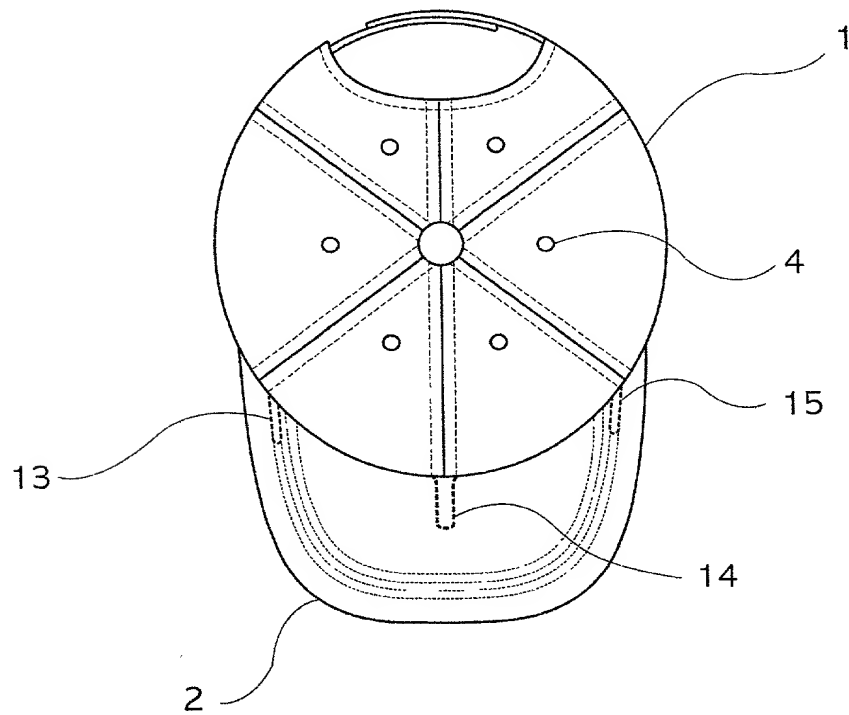


FIG.5

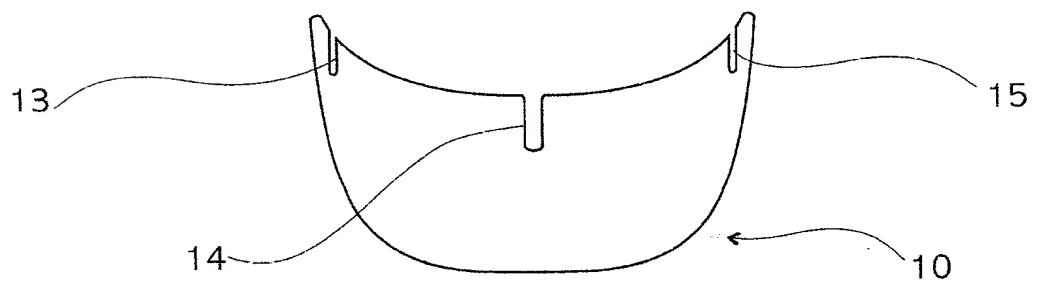


FIG. 6

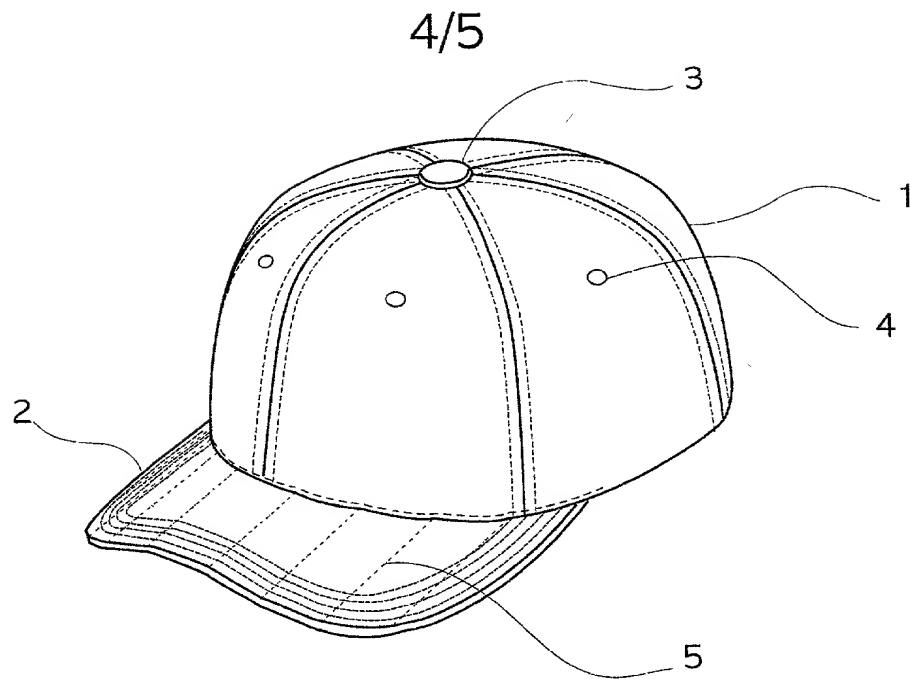


FIG. 7

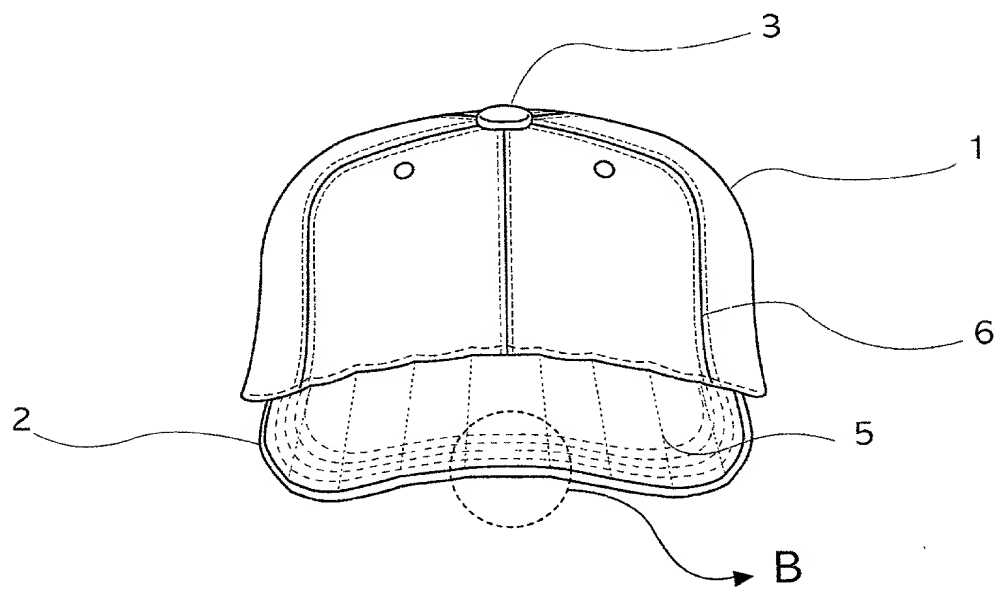


FIG. 7-1

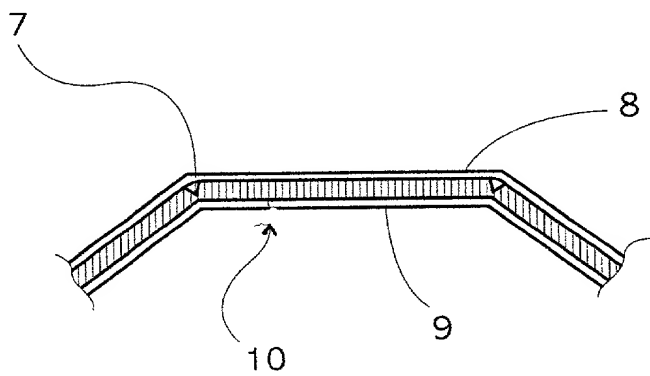


FIG.8

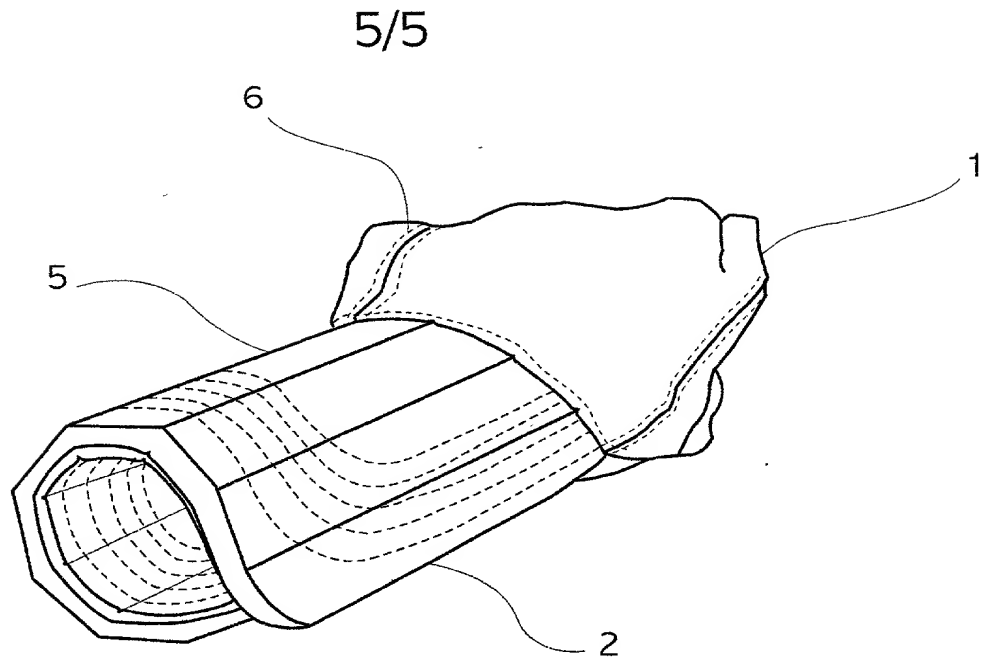


FIG.9

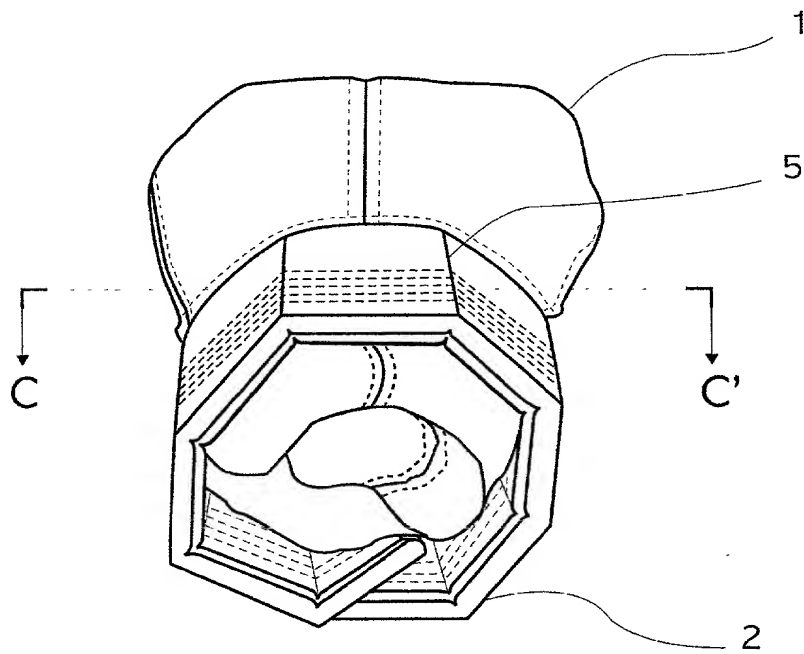
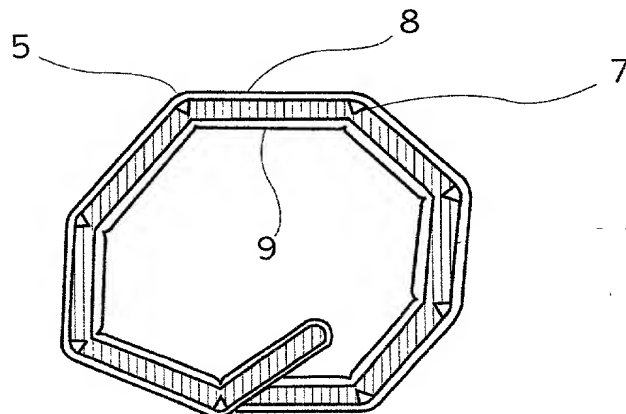


FIG.9-1



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Attorney's Docket No.

P64755US0

SMALL ENTITY DECLARATION

[37 CFR 1.9(c-f)]

Each undersigned declares that:

(1) ☒ the application attached hereto.

(2) ☐ U.S. Application Serial No. _____, filed _____

(3) ☐ U.S. Patent No. _____ issued _____

is entitled to the benefits of "small entity" status for paying reduced fees under 35 USC 41(a) and (b) to the Patent and Trademark Office by virtue of the following:

(4) ☐ Each undersigned declares that he/she qualifies as an independent inventor, or would qualify had he/she made the invention as defined in 37 CFR 1.9(c).

(5) ☒ The undersigned declares that he/she is an official empowered to act on behalf of the concern identified below; that this concern qualifies as a small business concern as defined in 37 CFR 1.9(d); that exclusive rights to the invention have been conveyed to and remain with the small business concern, or if the rights are not exclusive, that all other rights belong to small entities as defined in 37 CFR 1.9.

(6) ☐ The undersigned declares that he/she is an official empowered to act on behalf of the organization identified below; that this organization qualifies as a nonprofit organization as defined in

(a) ☐ 37 CFR 1.9(e)(1)

(b) ☐ 37 CFR 1.9(e)(2)

(c) ☐ 37 CFR 1.9(e)(3)

(d) ☐ 37 CFR 1.9(e)(4) State law of _____

that exclusive rights to the invention have been conveyed to and remain with the organization, or if the rights are not exclusive, that all other rights belong to organizations as defined in 37 CFR 1.9.

(7) Each person, concern or organization to which I/we have assigned, granted, conveyed or licensed, or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

(a) ☐ no such person, concern or organization

(b) ☒ persons, concerns or organization listed below

[a separate declaration is required from each named person, concern or organization having rights to this invention averring to their status as "small entities,"]

Full Name

DADA CORP.

Address

790-4 YEOKSAM-DONG, DADA CENTER BLDG., KANGNAM-GU, SEOUL, KOREA

☐ Individual

☒ Small Business Concern

☐ Nonprofit Organization

I/we acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement of small entity prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I/we hereby declare all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful/false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed.

(8)	BOO YI PARK	<i>[Signature]</i>	Feb. 21, 2000
	Typed Name of Inventor	Signature	Date
	Typed Name of Inventor	Signature	Date
	Typed Name of Inventor	Signature	Date
	Typed Name of Inventor	Signature	Date
(9)	DADA CORP.		
	Name of Small Business Concern or Nonprofit Organization		
	BOO YI PARK	<i>[Signature]</i>	Feb. 21, 2000
	Typed Name	Signature	Date
	PRESIDENT		
	Title of Signatory		

ALL PATENTS, INCLUDING DESIGN
FOR APPLICATION BASED ON PCT; PARIS CONVENTION;
NON PRIORITY; OR PROVISIONAL APPLICATIONS

DECLARATION
AND POWER OF ATTORNEY
U.S.A.

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ATTORNEY'S DOCKET NO.

11869-P64755US0

As a below named inventor, I declare that my residence, post office address and citizenship are stated below next to my name, the information given herein is true, that I believe that I am the original, first and sole inventor (if only one name is listed at 201 below), or a first and joint inventor (if plural inventors are named below at 201-203, or on additional sheets attached hereto) of the subject matter which is claimed and for which patent is sought on the invention entitled:

CAP WITH CURVED VISOR

which is described and claimed in:

PCT International Application No.

filed

X the attached specification

the specification in application

filed

Serial No.

(if
applicable) and amended on

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.50.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified

Below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

(Number)

(Country)

(Day/Month/Year Filed)

Yes

No

(Number)

(Country)

(Day/Month/Year Filed)

Yes

No

(Number)

(Country)

(Day/Month/Year Filed)

Yes

No

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

Application No.

Filing Date

Application No.

Filing
Date

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.50 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

Serial No.)

(Application

(Filing Date)

(Status: patented, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys (Registration No.) to prosecute this application, receive and act on instructions from my agent, and transact all business in the Patent and Trademark Office connected therewith. HARVEY B. JACOBSON JR. (20,851); D. DOUGLAS PRICE (24,514); JOHN CLARKE HOLMAN (22,769); MARVIN R. STERN (20,640); MICHAEL R. SLOBASKY (28,421); JONATHAN L. SCHERER (29,851); IRWIN M. AISENBERG (19,007); WILLIAM E. PLAYER (31,409); and YOON S. HAM (45,307).

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PROFESSIONAL LIMITED LIABILITY COMPANY

*Inventor(s) name must include at least one unabbreviated first or middle name.

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I further declare that all statements made herein or my own knowledge are true and that all statement made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under section 1001 of Title 18 of the United States Code; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201

SIGNATURE OF INVENTOR 202 *

SIGNATURE OF INVENTOR 203 *